

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/593021	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/10 18:17
S2	378555	((reiner with schmitt) (thomas with wahl) (harlad with guenschel) (harry with braun) (andy with tiefenbach) (ulrich with eisele) (lothar with diehl) (thomas moser) (stefan with rodewald) (dieter with lindauer) (juergen with sindel) (dirk with rady) (frank with buchholz)).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/10 18:19
S3	4635	204/424-429.ccls. 205/783.5-785,781. ccls. 73/23.31-23.32. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/10 18:19
S4	188	S2 and S3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/10 18:19
S5	11	("3598711"   "3843400"   "4289802"   "4668375"   "4720335"   "5393397"   "5486279"   "5716507"   "6436277").PN. OR ("6712945").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/10 18:30
S6	8	("20030155239"   "20030164023"   "20040084309"   "20040227087"   "4859307"   "5098549"   "5236569"   "6033544").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/10 18:32

S7	11	("3598711"   "3843400"   "4289802"   "4668375"   "4720335"   "5393397"   "5486279"   "5716507"   "6436277").PN. OR ("6712945").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/10 18:44
S8	1	"20020017462"	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/10 19:08
S9	4637	204/424-429.ccls. 205/783.5-785,781. ccls. 73/23.31-23.32. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 08:49
S10	2295	S9 and solid adj electrolyte\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 08:49
S11	1599	S10 and (heater\$1 heating)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 08:49
S12	6	S11 and (reduc\$4 decreas\$4 limit\$4) near5 (heat) near2 (flow\$4 conduct\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 09:14
S13	171	(reduc\$4 decreas\$4 limit\$4) near5 (heat) near2 (flow\$4 conduct \$5) with narrow\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 09:19
S14	283	(reduc\$4 decreas\$4 limit\$4) with (heat) near2 (flow\$4 conduct \$5) with narrow\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 09:19
S15	338	(reduc\$4 decreas\$4 limit\$4 minimiz\$4) with (heat) near2 (flow\$4 conduct\$5) with narrow \$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 09:31
S16	15	("2963277"   "4691767"   "4791984").PN. OR ("5076353").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/15 10:47
S17	36	S9 and (reduc\$4 decreas\$4 limit\$4) near5 (heat) near2 (flow\$4 conduct\$5 loss)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 10:50
S18	47	S9 and (reduc\$4 decreas\$4 limit\$4 minimiz\$4) near5 (heat) near2 (flow\$4 conduct\$5 loss)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 10:50

S19	62	S9 and (reduc\$4 decreas\$4 limit\$4 minimiz\$4) with (heat) near2 (flow\$4 conduct \$5 loss)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 10:50
S20	66	S9 and (reduc\$4 decreas\$4 limit\$4 minimiz\$4) with (heat) near2 (flow\$4 conduct \$5 loss\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 10:50
S21	19	S9 and (maintain\$4 keep\$4) near5 (constant\$4) near5 temperature with electrode\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 11:01
S22	529	S9 and narrow\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 11:14
S23	117	S9 and narrow\$4 with electrode\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 11:14
S24	5	"2963277"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2010/11/15 13:27
S25	5	("20030146093"   "5288389"   "5419828"   "5830339").PN. OR ("7160422").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/15 13:40
S26	19	("2415473"   "2647189"   "2716175"   "3124957"   "3550055"   "3593253").PN. OR ("4682141").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/15 13:43
S27	12	("4152302"   "4556543"   "4987034"   "5041270"   "5174968"   "5317869"   "5436216").PN. OR ("5549873").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/15 13:45
S28	40	("3770389"   "4753918"   "4934142"   "5084361"   "5200154"   "5202303"   "5278125").PN. OR ("5436216").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/11/15 14:12
S29	0	6767442,ob,	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/15 14:37

S30	2	"6767442".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/15 14:38
S31	4	"2003029225"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/15 14:38
S32	2	"20030029225"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/15 14:39
S33	0	"10701544"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:00
S34	1	"10/701544"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:01
S35	4668	204/424-429.ccls. 205/783.5-785,781. ccls. 73/23.31-23.32. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:01
S36	35	S35 and (electrode\$1) with width\$1 near5 (mm micron\$1 micro)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:01
S37	12	("3978006"   "4127463"   "4155827"   "4535316"   "5602325"   "5616825"   "5739414"   "5804050"   "5886248"   "5889196").PN. OR ("6354134").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/02/16 11:05
S38	13	S35 and (electrode\$1 and lead\$1) near5 width\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:06
S39	5	S35 and (reduc\$4 decreas\$4 suppres\$4) near6 (heat\$4 thermal \$4 temperature\$1) near6 electrode\$1 near5 lead\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:07
S40	2	narrow\$4 near5 (reduc \$4 decreas\$4 suppres \$4) near6 (heat\$4 thermal\$4 temperature \$1) near6 electrode\$1 near5 lead\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:08
S41	27	narrow\$4 near6 (heat \$4 thermal\$4 temperature\$1) near6 electrode\$1 near5 lead \$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:09

S42	514	narrow\$4 near6 (heat\$4 thermal\$4 temperature\$1) near6 electrode\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:12
S43	10	S35 and S42	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:12
S44	45	narrow\$4 near6 (suppres\$4 decreas\$4 lower\$1 chang\$4) near5 (heat\$4 thermal\$4 temperature\$1) near6 electrode\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:13
S45	3466	narrow\$4 near6 (suppres\$4 decreas\$4 lower\$1 chang\$4) near5 (heat\$4 thermal\$4 temperature\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:16
S46	12	S45 and S35	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:16
S47	9	S46 not (S38 S43)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:17
S48	210	narrow\$4 near2 (section\$1 portion\$1 layer\$1 area\$1) near6 (suppres\$4 decreas\$4 lower\$1 chang\$4) near5 (heat\$4 thermal\$4 temperature\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 11:18
S49	0	2005/0158458	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 15:08
S50	2	"20050158458"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 15:08
S51	4668	204/424-429.ccls. 205/783.5-785,781. ccls. 73/23.31-23.32. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 15:10
S52	946	S51 and porous near2 electrode\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 15:10
S53	105	S51 and porous near2 electrode\$1 with (advantag\$4 disadvantage\$4 improv\$4 enhanc\$4 increas\$4 suppress\$4 decreas\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 15:11

S54	855	S51 and electrode\$1 with thick\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 15:14
S55	74	S51 and electrode\$1 with lead\$1 with thick \$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 15:14
S56	122	S51 and electrode\$1 with thick\$4 with (advantag\$4 disadvantag\$4 improv \$4 enhanc\$4 increas\$4 suppress\$4 decreas\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 15:14
S57	3	S51 and electrode\$1 with lead\$1 with thick \$4 with (advantag\$4 disadvantag\$4 improv \$4 enhanc\$4 increas\$4 suppress\$4 decreas\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/16 15:15
S58	4670	204/424-429.ccls. 205/783.5-785,781. ccls. 73/23.31-23.32. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/17 09:46
S59	496	S58 and electrode\$1 near5 (shape\$1 branch \$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/17 09:46
S60	603	S58 and electrode\$1 near5 (shape\$1 branch \$4 circul\$4 annula\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/17 09:46
S61	444	S60 and solid adj electrolyte\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/02/17 09:47
S62	5	("4298573"   "4772376"   "5591321").PN. OR ("5811660").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/02/17 10:04
S63	7	("4284487"   "4629549"   "5969229"   "6071393"   "6120663").PN. OR ("6348140").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/02/17 10:13
S64	12	("3843400"   "4283441"   "4379741"   "4588494"   "4668375"   "4943330"   "5314604"   "5435901"   "5662786"   "5895591"   "6436277").PN. OR ("6770180").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/02/17 10:16

S65	39	S58 and (dens\$4 inhibit \$4 impermea\$4) near3 (layer\$1 barrier\$1 portion\$1 membrane \$1) with (zircon\$5 "zro. sub.2")	US-PGPUB; USPAT; USOCR	OR	OFF	2011/02/17 10:31
S66	4679	204/424-429.ccls. 205/783.5-785,781. ccls. 73/23.31-23.32. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 08:53
S67	484	S66 and heat\$4 with activat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 08:53
S68	3	S67 and bosch.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 08:53
S69	47	S66 and heater\$1 near3 activat\$4 near3 temperature\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 08:53
S70	0	"09840523"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 08:56
S71	2	"09/840523"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 08:56
S72	11	("3598711"   "3843400"   "4289802"   "4668375"   "4720335"   "5393397"   "5486279"   "5716507"   "6436277").PN. OR ("6712945").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/10 08:56
S73	2	("6767442"   "7083710").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/10 13:35
S74	16	("3776831"   "4487680"   "4502939"   "4505807"   "4797194"   "4900425"   "5298147"   "5314604"   "5529677"   "5676811"   "6059947"   "6375816").PN. OR ("6767442").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/10 13:36

S75	9	("20030136676"   "5298147"   "5314604"   "5505837"   "5885429"   "5902469"   "6068748"   "6334946"   "6767442").PN. OR ("7445699").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/10 13:37
S76	4679	204/424-429.ccls. 205/783.5-785,781. ccls. 73/23.31-23.32. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 14:28
S77	19	S76 and (shoichi with sakai)	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/10 14:28
S78	19	S76 and (shoichi with sakai).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/03/10 14:28
S79	4679	204/424-429.ccls. 205/783.5-785,781. ccls. 73/23.31-23.32. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 14:56
S80	199	S79 and dens\$ near3 (layer\$1 membrane\$1 barrier\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 14:56
S81	11	S79 and dens\$ near3 (layer\$1 membrane\$1 barrier\$1) near5 lead \$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 14:56
S82	1274	S79 and (porous porosity) near4 (lead\$1 electrode\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 15:17
S83	1047	S82 and solid adj electrolyte\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 15:18
S84	255	S82 and solid adj electrolyte\$1	US-PGPUB	OR	OFF	2011/03/10 15:18
S85	178	S79 and (porosity) near4 (lead\$1 electrode \$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 15:18
S86	2	"4915814".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 15:35
S87	40	S79 and (reduc\$4 decreas\$4) near5 (ceramic\$4 zirconia alumina) near5 (porosit \$2 porous)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/10 15:40
S88	4682	204/424-429.ccls. 205/783.5-785,781. ccls. 73/23.31-23.32. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/22 14:57



S89	14	S88 and porosity near5 (decreas\$4 increas\$4 lower\$4 rais\$4) near5 ("zro.sub.2" zirconia zirconium)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2011/03/22 14:57
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